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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,106	12/03/2003	Shubha Kadambe	HRL132 7282	
	7590 07/31/200 Y & ASSOCIATES	EXAMINER		
23852 PACIFIC COAST HIGHWAY #311			VO, HUYEN X	
MALIBU, CA 90265			ART UNIT	PAPER NUMBER
			2626	
			MAIL DATE	DELIVERY MODE
			07/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comme	10/728,106	KADAMBE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Huyen X. Vo	2626			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iii apply and will expire SIX (6) MONTHS from the application to become ARANDONE	l. ely filed the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on 02 De	ecember 2003.				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-123</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-82</u> is/are allowed.					
6)⊠ Claim(s) <u>83-123</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers	•				
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>02 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1 sheet. 5) Notice of Informal Patent Application 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 2. Claims 83-123 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 3. Claims 83-123 are drawn to a "program" per se as recited in the preamble (computer program product is defined as computer readable code stored on any compatible computer readable medium. And the any compatible computer readable medium can be carrier waves) and as such is non-statutory subject matter. See MPEP § 2106.IV.B.1.a. Data structures not claimed as embodied in computer readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus

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statutory. Similarly, computer programs claimed as computer listings *per se*, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

Allowable Subject Matter

4. Claims 1-82 are allowed over prior art of record. The following is an examiner's statement of reasons for allowance: Murveit et al. disclose a method and system for fast on-line automatic speaker/environment adaptation suitable for speech/speaker recognition in the presence of changing environmental conditions, the method comprising acts of: performing front-end processing on an acoustic input signal, wherein the front-end processing generates MEL frequency cepstral features representative of the acoustic input signal (see reference); performing recognition and adaptation by: providing the MEL frequency cepstral features to a speech recognizer, wherein the speech recognizer utilizes the MEL frequency cepstral features and a current list of acoustic training models to determine at least one best hypothesis (referring to reference); receiving, from the speech recognizer, at least one best hypothesis, associated acoustic training models, and associated probabilities (common in speech recognizer); computing a pre-adaptation acoustic score by recognizing an utterance using the associated acoustic training models; choosing acoustic training models from

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the associated acoustic training models; performing adaptation on the chosen associated acoustic training models; and performing recognition and adaptation iteratively until the acoustic score ceases to improve; choosing the best hypothesis as recognized words once the acoustic score ceases to improve; and outputting the recognized words (*referring to reference*). Murveit et al. fail to specifically disclose computing a post-adaptation acoustic score by recognizing the utterance using the adapted acoustic training models; comparing the pre-adaptation acoustic score with the post-adaptation acoustic score to check for improvement; modifying the current list of acoustic training models to include the adapted acoustic training models, if the acoustic score improved after performing adaptation. Furthermore, it would have not been obvious to one of ordinary skill in the art at the time of invention to modify Murveit et al. in order to obtain the claimed invention. Therefore, claims 1-82 are allowed over prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huyen X. Vo whose telephone number is 571-272-7631. The examiner can normally be reached on M-F, 9-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HYV

7/20/2007